



## EU Type Examination Certificate CML 16ATEX1137U Issue 3

- 1 Components intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Component **Fixed 90°, 'T' and 'Y' Adaptors**
- 3 Manufacturer **CCG Cable Terminations PTY Ltd**
- 4 Address **33-37 Forge Road  
Spartan Industrial Area  
Kempton Park 1619  
South Africa**
- 5 The component is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
  
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 The 'U' suffix after the certificate number indicates that the component is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015+A1:2018

EN 60079-31:2014

- 10 The equipment shall be marked with the following:



I M2

Ex db I Mb

Ex eb I Mb



II 2 G, 1 D

Ex db IIC Gb

Ex eb IIC Gb

Ex ta IIIC Da

IP65 / IP66 / IP67 / IP68





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## 11 Description

The Fixed (i.e., non-adjustable) 90°, 'T' and 'Y' adaptors are manufactured with a male threaded portion at one end and female(s) at the other. The Fixed adaptors are intended for use where space is limited and there may not be room to fit a gland and cable in the conventional manner. They are intended for fitting to a threaded or plain hole (Ex eb applications only) when they are secured using a locknut.

The Fixed 90°, 'T' and 'Y' adaptors are available with Metric (M20 to M32), NPT, ET, BSPP or BSPT (1/2" to 1") male and female threads with the female threads the same size as, or any size smaller than the male thread.

On the 'T' and 'Y' adaptors the female threads do not need to be the same size as each other.

### Design Options:

- 90° Elbow Adaptors
- 'T' Adaptors
- 'Y' Adaptors

### Materials of Manufacture

- Brass (CZ121)
- HDPE (D7255/HL), PTFE (CCG PTFE-001), Nylon (6)

### Notes

1. Adaptors with parallel entry threads (e.g. Metric and BSP parallel) are supplied with fitted sealing gaskets on the male thread as standard. The sealing gasket is optional for Ex d applications without IP rating.
2. All units are rated IP65 for any sealing arrangement. Units with parallel threads shall be used with the supplied washer if an IP rating of IP66/67/68 is required. NPT threads are at least IP65 as standard, but IP68 (2m) can be achieved if one of the following grease types is applied to the NPT thread before fitting:- Renolit Lubrene CA 700, Renolit LC-WP2, Renolit Lubrene LX 220 EP2, Renolit Moly LX 2 or Dow Corning 4 Electrical Compound.

RE-FLEx sealing cord can be used as an alternative to a standard sealing gasket to achieve IP66/68. It is intended as a retro-fit solution and must be installed according to the fitting instructions supplied with it.

### Variation 1

This variation introduces the following modifications:

- i. To include 'T' and 'Y' Adaptor versions.
- ii. To update approval to EN 60079-0:2018 standard.



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## Variation 2

This variation introduces the following modifications:

- i. To update the description as a result of the modifications.
- ii. To update the coding from Ex tb IIIC Db to Ex ta IIIC Da.
- iii. To introduce a nylon sealing washer option. As a result, a new schedule of limitation was introduced.
- iv. To update the temperature limitation of the HDPE sealing washer. As a result, the schedule of limitation was amended.
- v. To include the RE-FLEEx sealing cord as an option.
- vi. To include ET threads.
- vii. To remove the swivel 90°, 'T' and 'Y' adaptors. (They have been moved to another certificate.)
- viii. To update EN IEC / IEC 60079-7 to the latest edition.
- ix. To allow the use of the grease for NPT threads to achieve IP68.
- x. To permit changes to the Schedule of Limitations.

## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	09 Jul 2016	R1305A/00	Issue of prime certificate
1	16 Sep 2016	-	Addition of IP rating to certificate marking
2	04 Sep 2018	R11948A/00	Introduction of Variation 1
3	28 Feb 2023	R15541A/00	Introduction of Variation 2

Note: Drawings that describe the equipment or component are listed in the Annex.

## 13 Conditions of Manufacture

None

## 14 Schedule of Limitations

The following conditions relate to safe installation and/or use of the equipment.

- i. All adaptors are rated IP65 for any sealing arrangement. If an IP rating of IP66/67/68 is required, the supplied sealing washer or the specified grease shall be used (threaded entries only).
- ii. A service temperature of -60°C to +95°C shall not be exceeded when a HDPE sealing washer is utilised.
- iii. A service temperature of -60°C to +100°C shall not be exceeded when a Nylon sealing washer is utilised.
- iv. A service temperature of -60°C to +160°C shall not be exceeded when a PTFE sealing washer is utilised.
- v. A service temperature of -60°C to +100°C shall not be exceeded when thread grease is utilised.

## Certificate Annex

**Certificate Number** CML 16ATEX1137U  
**Equipment** Fixed 90°, 'T' & 'Y' Adaptors  
**Manufacturer** CCG Cable Terminations PTY Ltd



The following documents describe the equipment or component defined in this certificate:

### Issue 0

Drawing No.	Sheets	Rev.	Approved date	Title
AELB - ASSY	1 of 1	-	09 Jul 2016	ADJUSTABLE ELBOW GENERAL ASSEMBLY
AELB BODY	1 of 1	-	09 Jul 2016	ADJUSTABLE ELBOW BODY
AELB NUT	1 of 1	-	09 Jul 2016	ELBOW NUT
FELB ASSY	1 of 1	-	09 Jul 2016	FIXED ELBOW GENERAL ASSEMBLY
FELB BODY	1 of 1	-	09 Jul 2016	FIXED ELBOW

### Issue 1

No additional drawings issued.

### Issue 2

Drawing No.	Sheets	Rev.	Approved date	Title
AT ADAPTOR ASSY	1 of 1	-	04 Sep 2018	Adjustable T Adaptor Assembly
FT ADAPTOR ASSY	1 of 1	-	04 Sep 2018	Fixed T Adaptor Assembly
AT BODY	1 of 1	-	04 Sep 2018	Adjustable T Adaptor Body
FT BODY	1 of 1	-	04 Sep 2018	Fixed T Adaptor Body
AY ADAPTOR ASSY	1 of 1	-	04 Sep 2018	Adjustable Y Adaptor Assembly
FY ADAPTOR ASSY	1 of 1	-	04 Sep 2018	Fixed Y Adaptor Assembly
AY BODY	1 of 1	-	04 Sep 2018	Adjustable Y Adaptor Body
FY BODY	1 of 1	-	04 Sep 2018	Fixed Y Adaptor Body

### Issue 3

Drawing No.	Sheets	Rev.	Approved date	Title
FELB ASSY	1 of 1	2	28 Feb 2023	FIXED ELBOW GENERAL ASSEMBLY
FT ADAPTOR ASSY	1 of 1	2	28 Feb 2023	FIXED T ADAPTOR ASSEMBLY
FY ADAPTOR ASSY	1 of 1	2	28 Feb 2023	FIXED Y ADAPTOR ASSEMBLY